Fig. 1

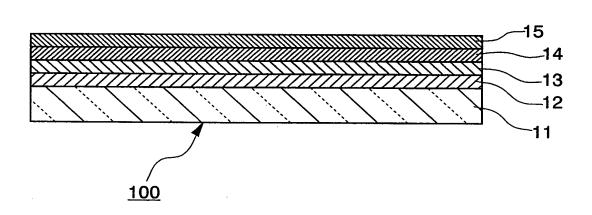
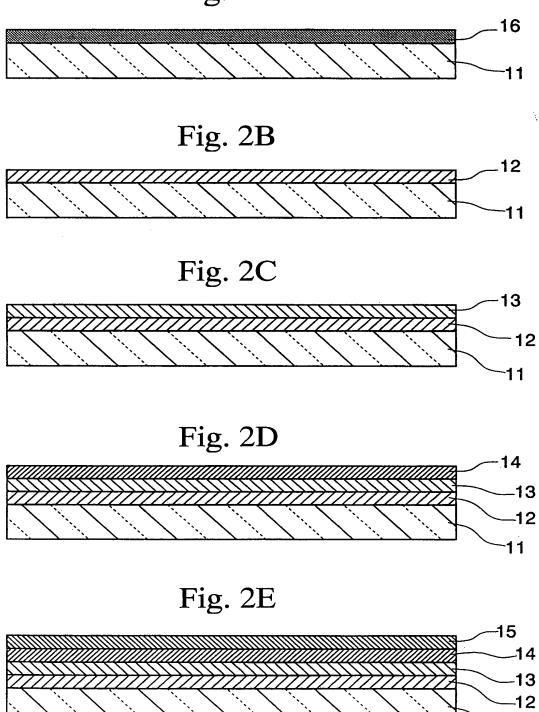
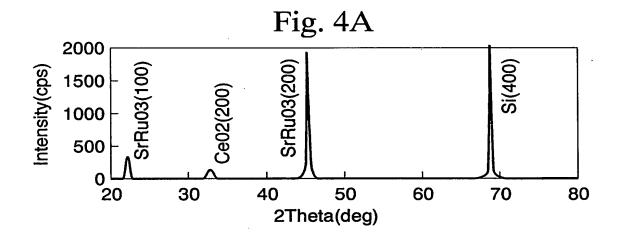


Fig. 2A



11

Fig. 3A Fig. 3B (b) (a) Fig. 3C Fig. 3D (d) (c) Fig. 3E (e)



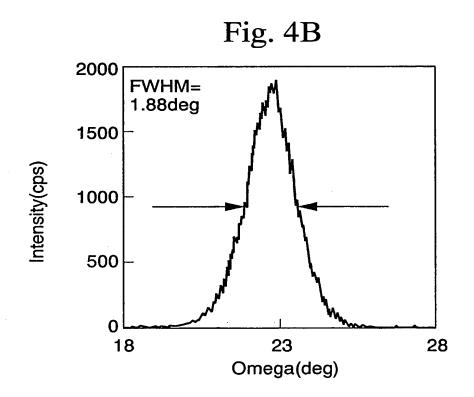


Fig. 5

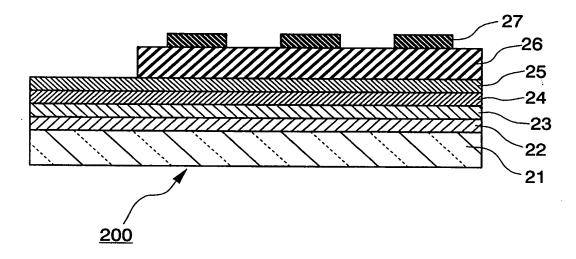


Fig. 6

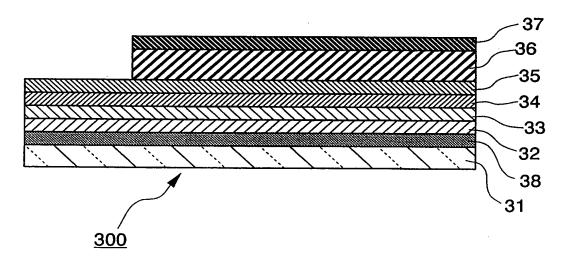


Fig. 7 Si SUBSTRATE WASHING STEP **EPITAXIAL GROWTH PROCESS OF FIRST BUFFER LAYER EPITAXIAL GROWTH PROCESS OF SECOND BUFFER LAYER EPITAXIAL** GROWTH PROCESS OF FIRST OXIDE **ELECTRODE LAYER EPITAXIAL** GROWTH PROCESS OF SECOND OXIDE

ELECTRODE LAYER

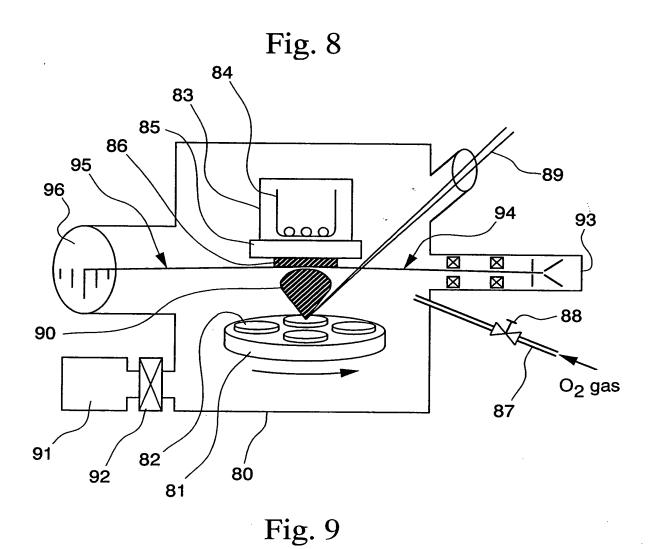


Fig. 10

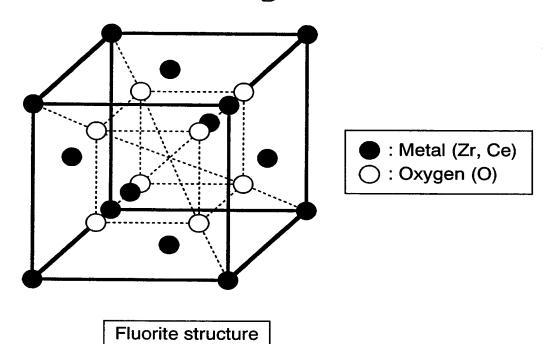
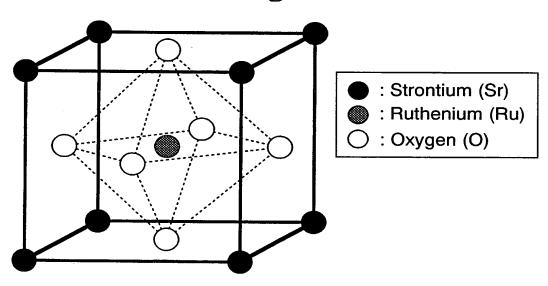
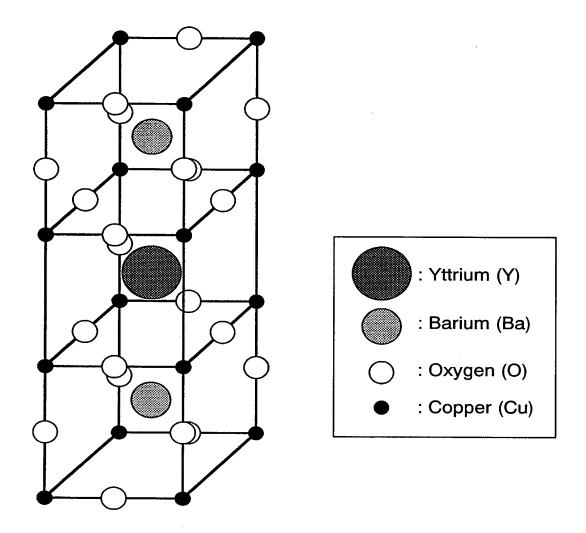


Fig. 11



(Simple) perovskite structure

Fig. 12



Oxygen defect type triple perovskite structure

Fig. 13

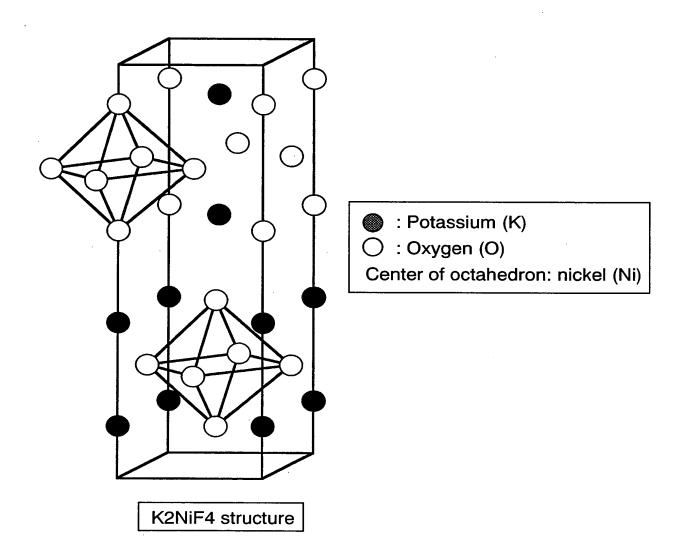


Fig. 14

